

FIG. 1

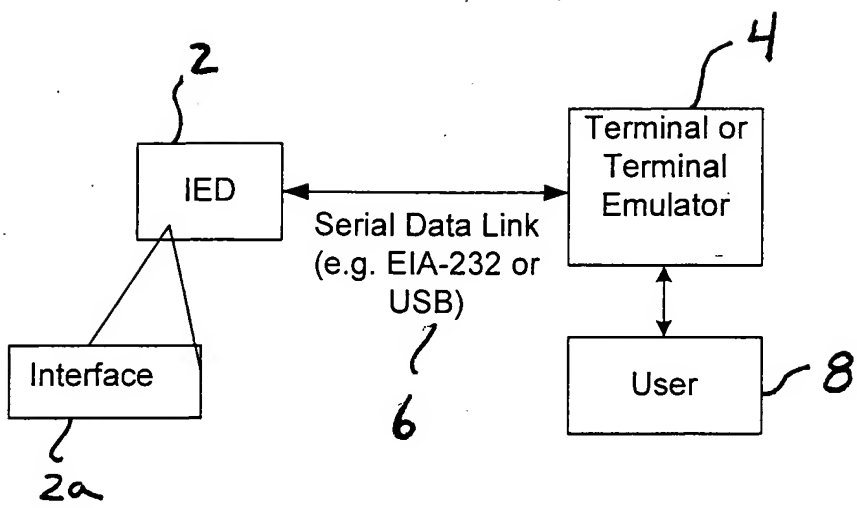
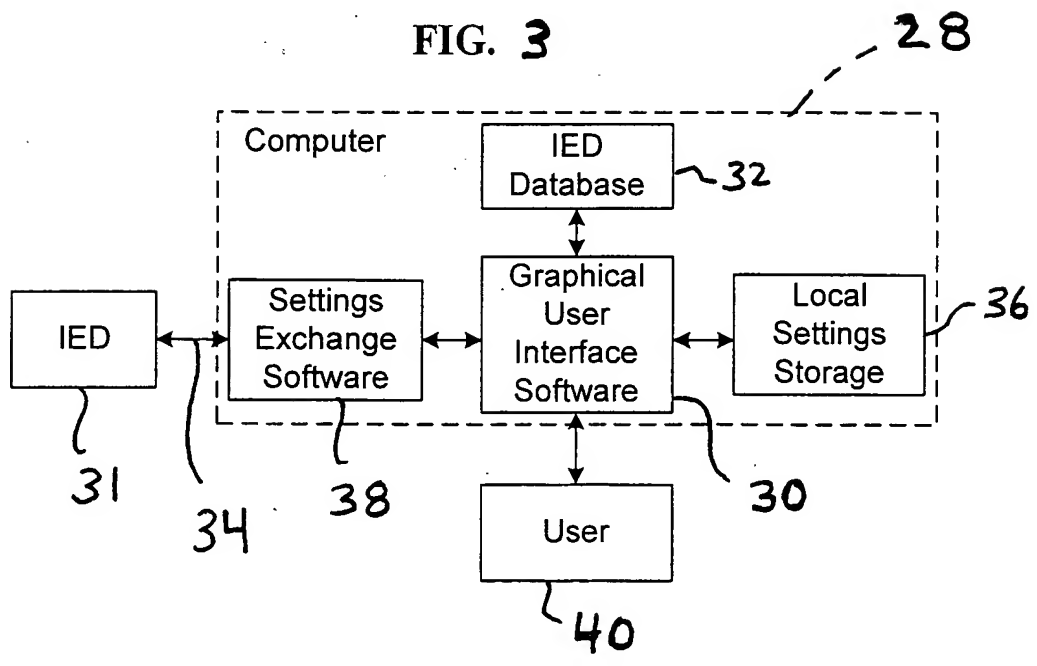


FIG. 3



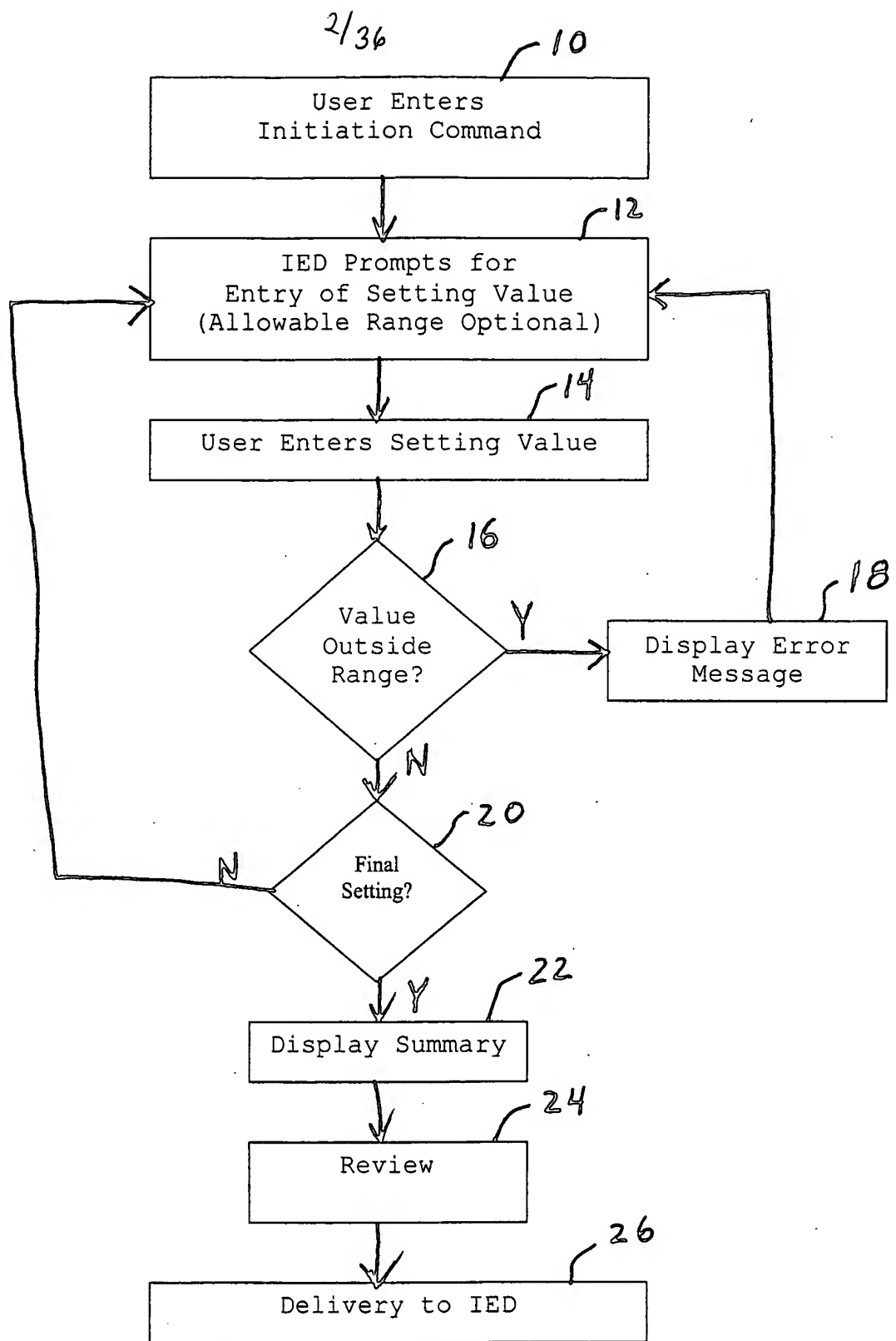
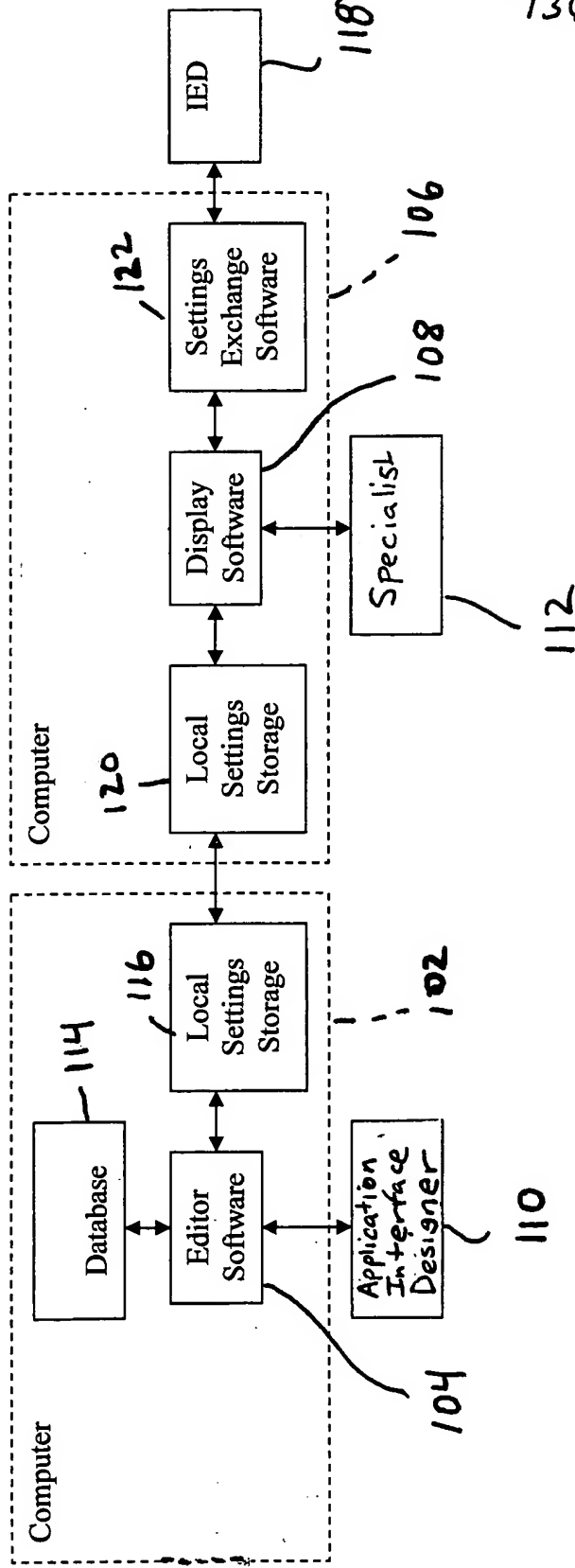


FIG. 2

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FIG. 4



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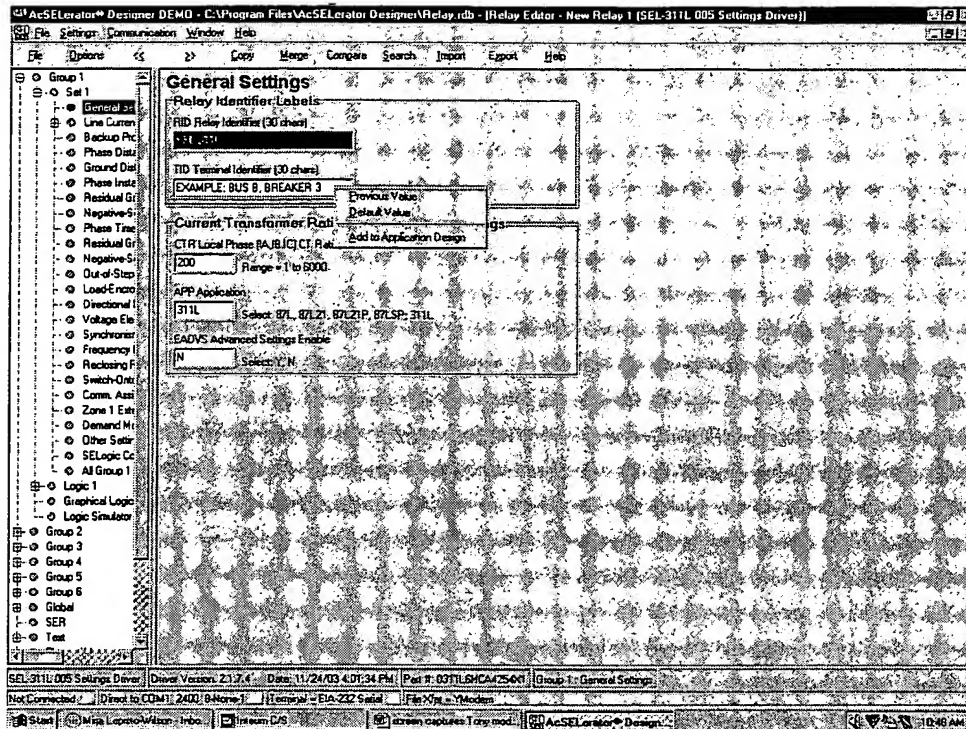


FIG. 5A

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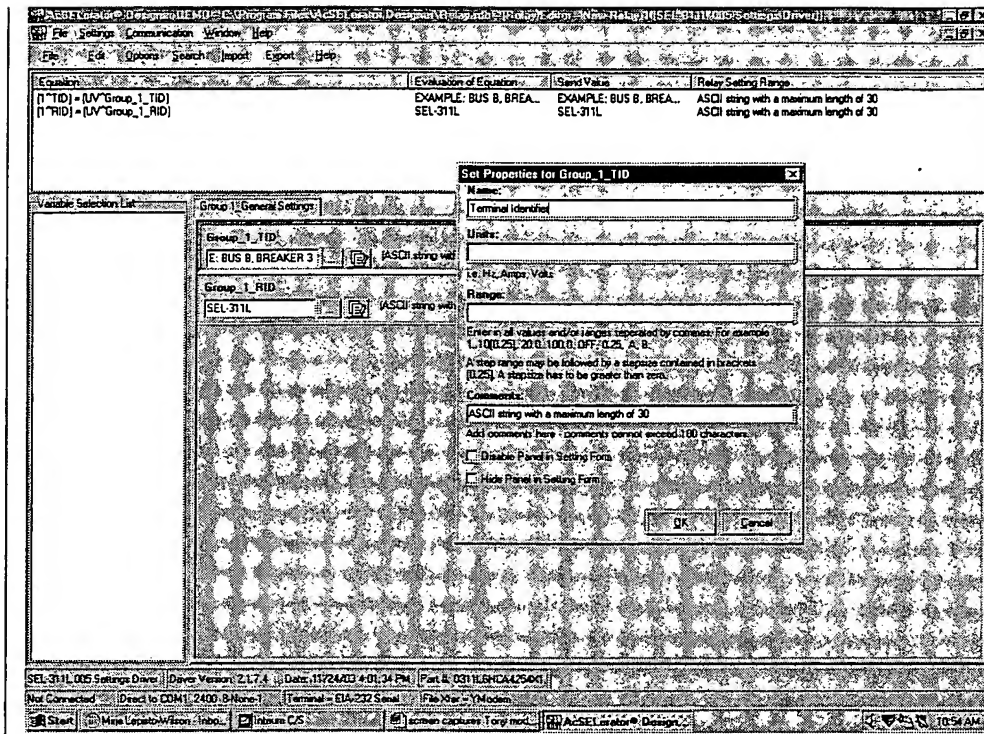


FIG. 5B

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ASCI Editor@ Designer D1411 - CA Program File\ASCI Editor Designer\Relay.rtb - [Relay Editor-New Relay 1 (541-311) Settings Driver]			
File Settings Communication Window Help			
File Edit Options Import Export Help			
Equation	Evaluation of Equation	Send Value	Relay Setting Range
1 "TID" = [JV"Terminal_Identifier] 1 "RID" = [JV"Group_1_RID"]	EXAMPLE : BUS B. BREA... SEL - 311L	EXAMPLE : BUS B. BREA... SEL - 311L	ASCII string with a maximum length of 30 ASCII string with a maximum length of 30
Variable Selection List	Group_1_General Settings		
	Terminal_Identifier: <input type="text" value="BUS B BREAKER 3"/> ASCII string with a maximum length of 30		
	Group_1_RID [Units]: <input type="text" value="SEL 311L"/> ASCII string with a maximum length of 30		
311L 005 Settings Driver - Driver Version: 2.1.7.4 - (Date: 10/26/2003 12:03:52 PM Part #: 0311L6HCA4254X1) Not Connected - Direct to COM1, 2400, 8-NONE - Terminal = EIA-232 Serial - File Xfer = PModem			

FIG. 5C

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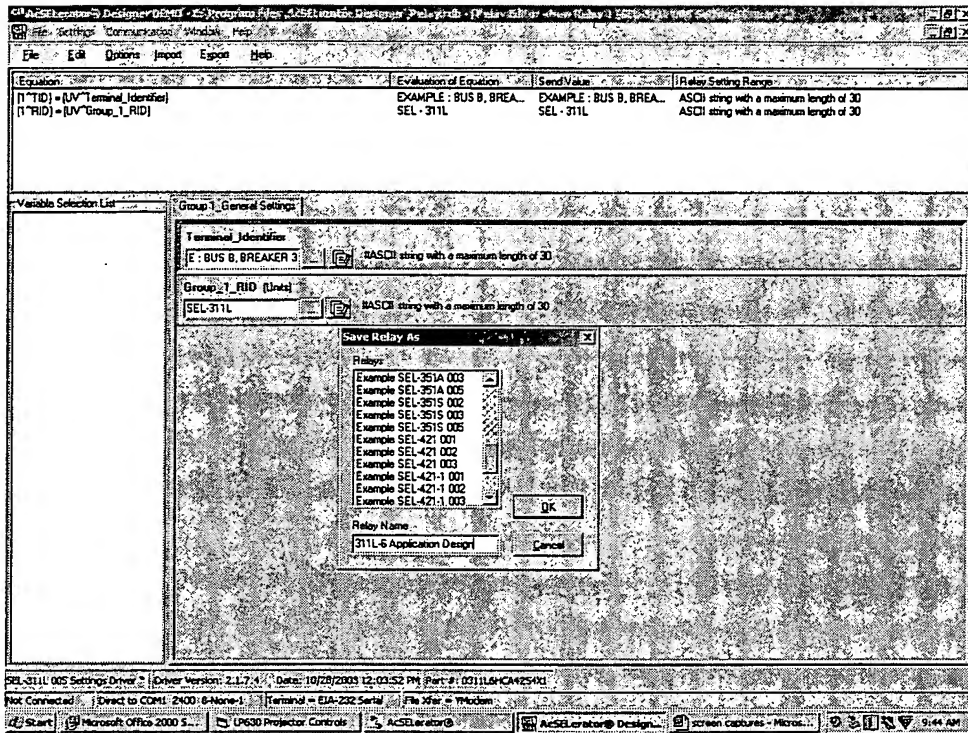


FIG. 5D

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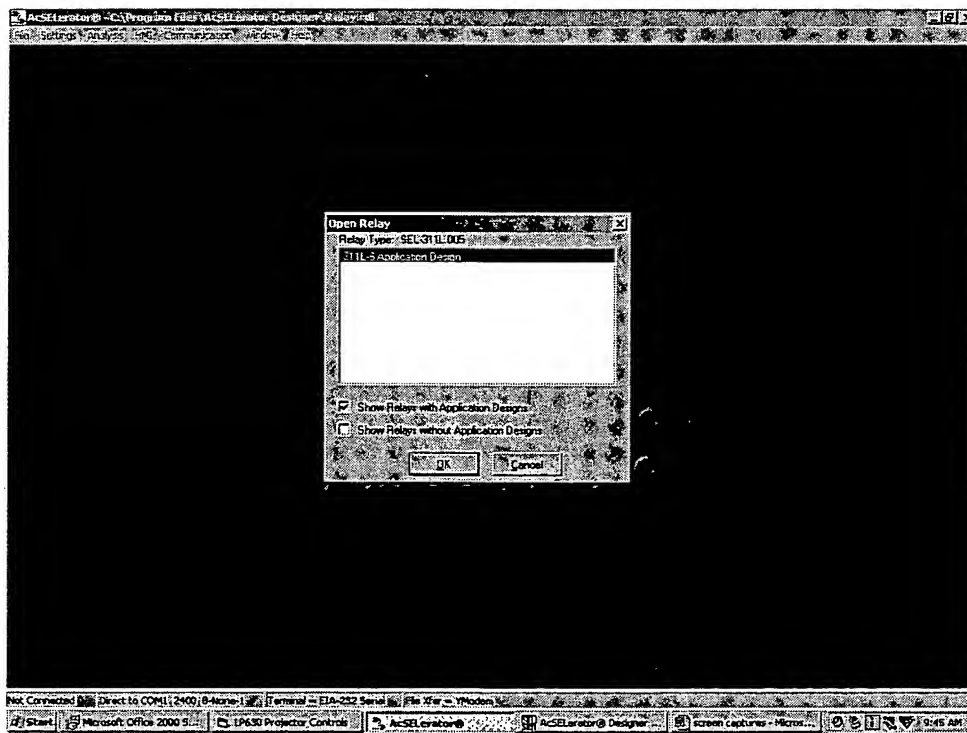
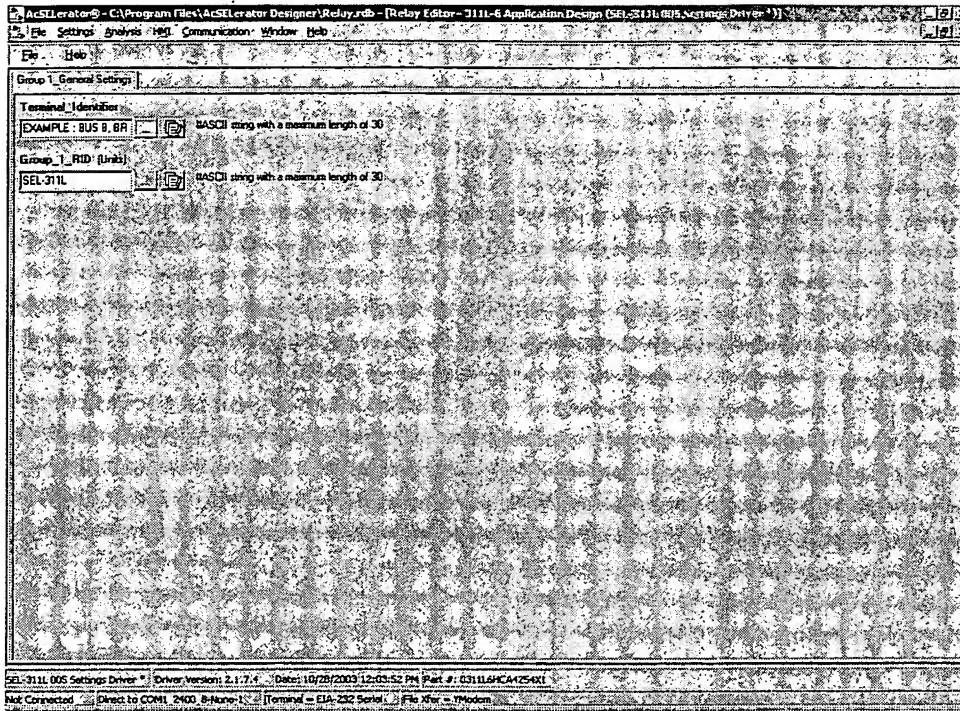


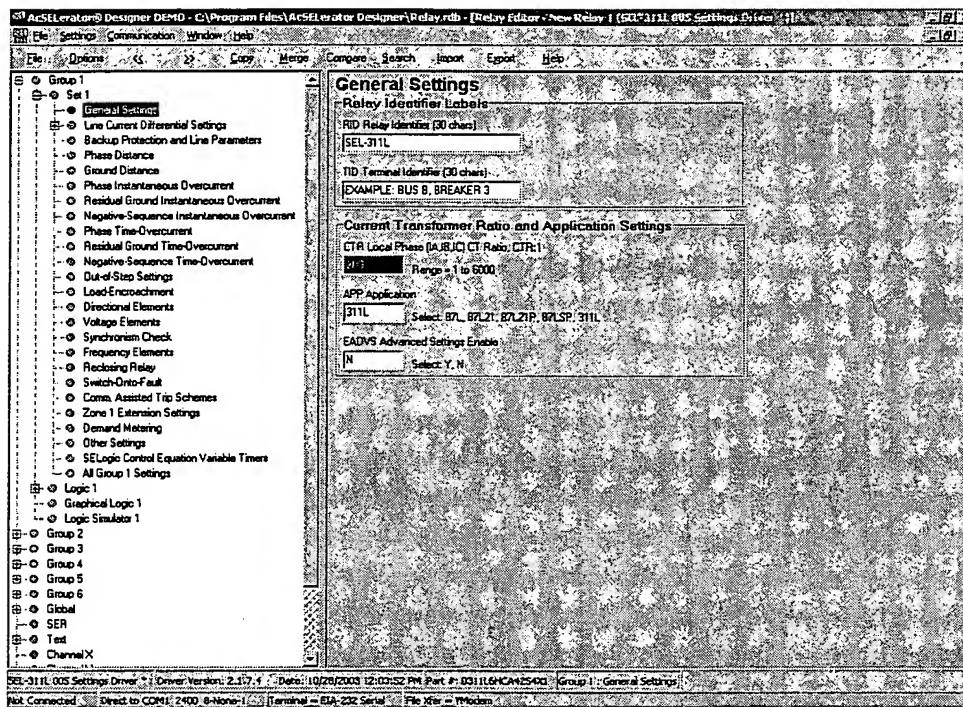
FIG. 5E

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FIG. 5F



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F15.6A

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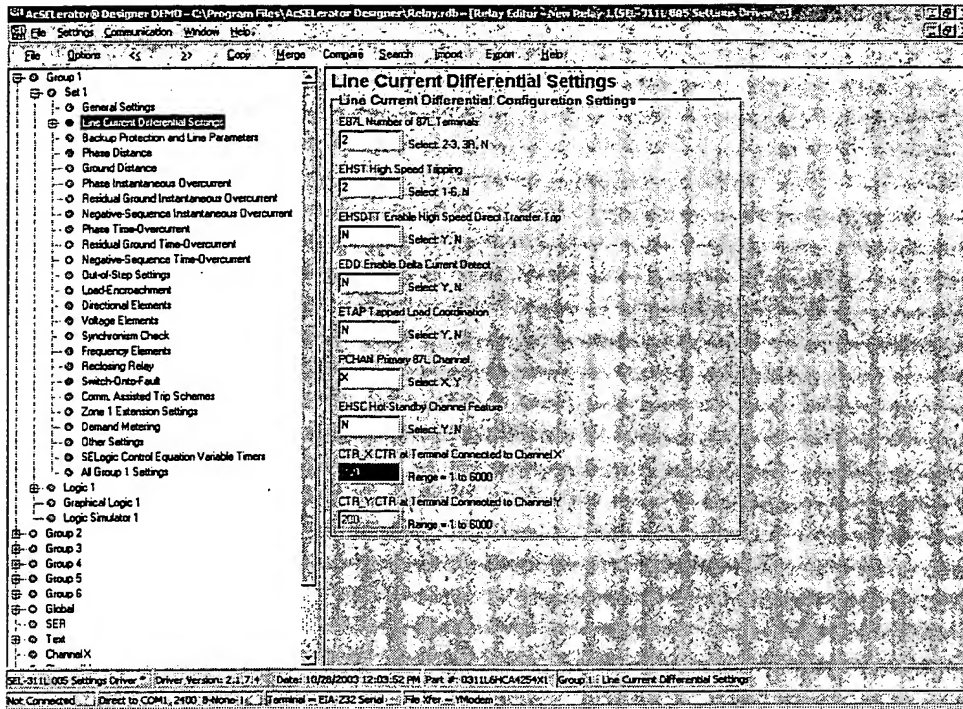


FIG. 6B

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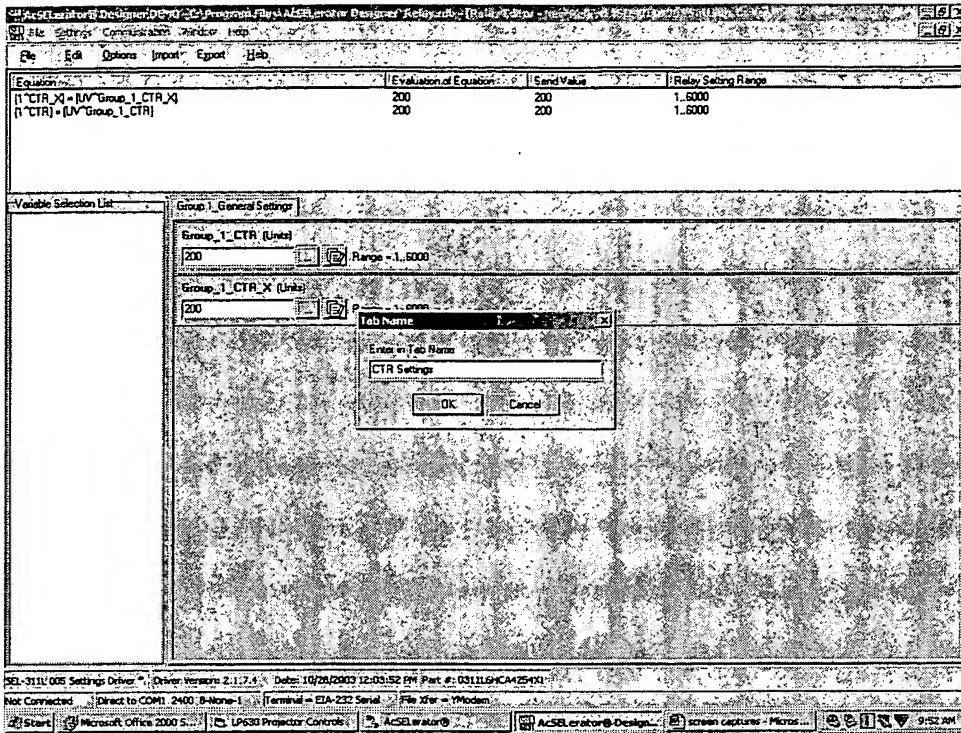


FIG. 6C

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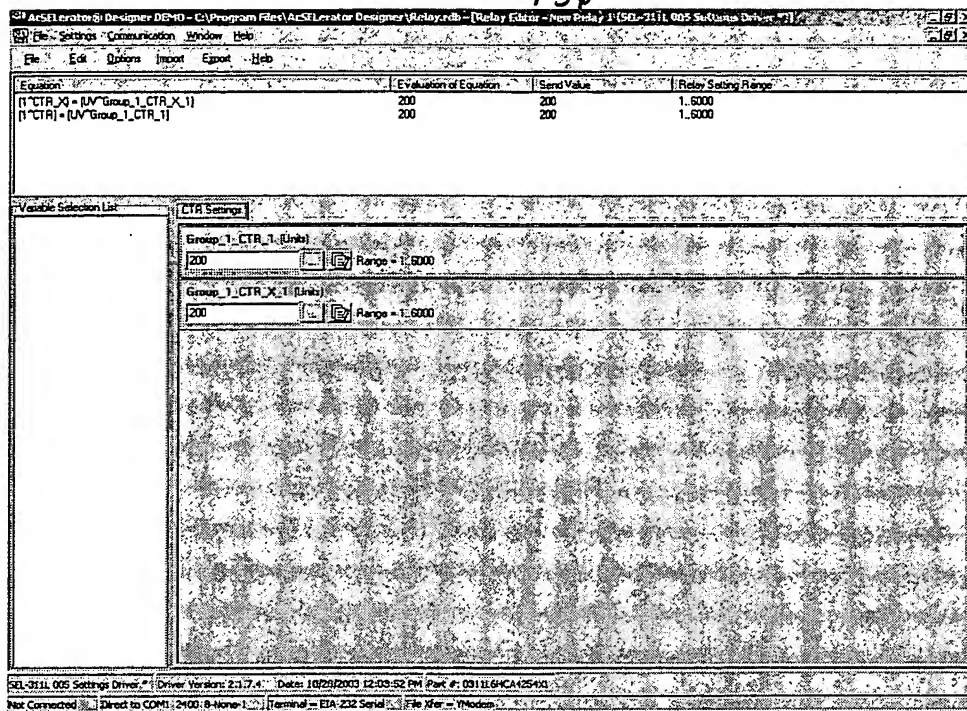


FIG. 6D

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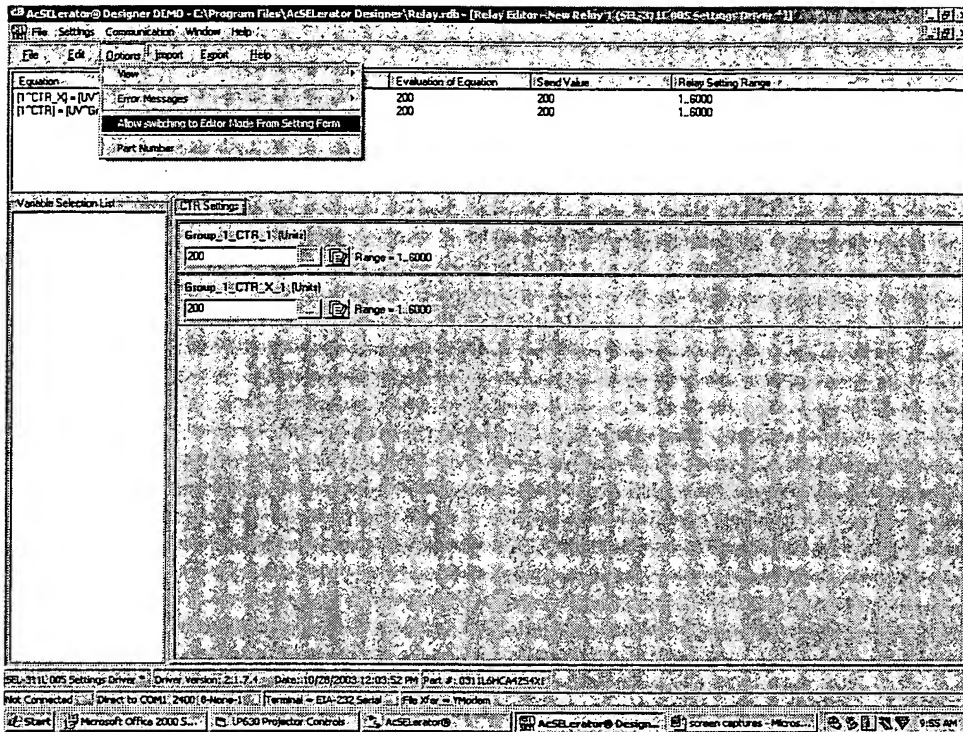


FIG. 6E

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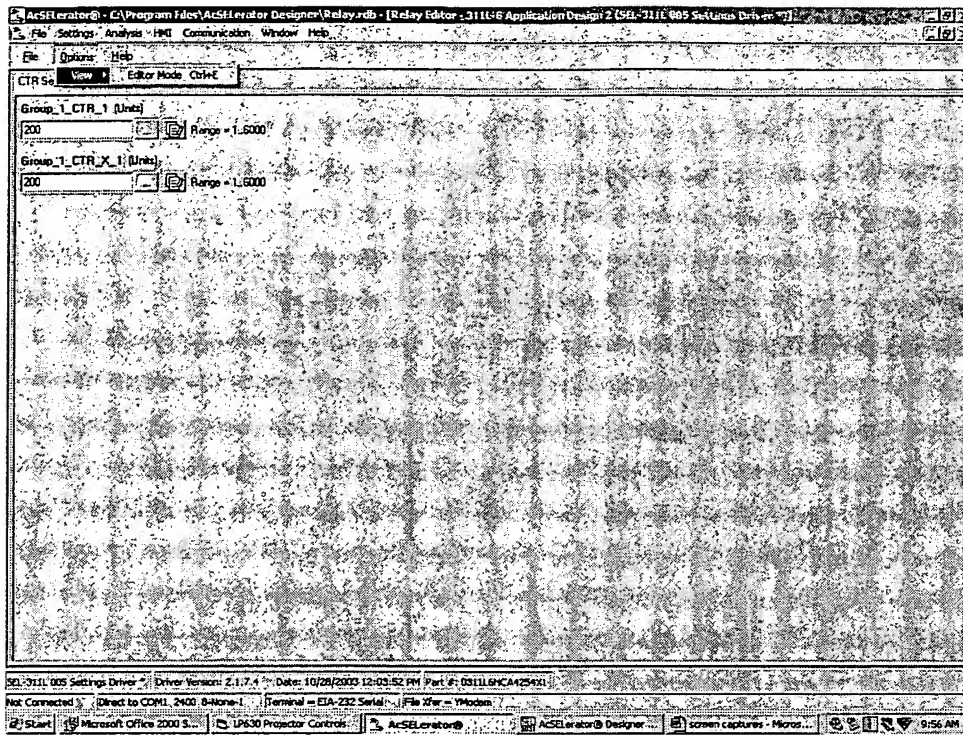


FIG. 6F

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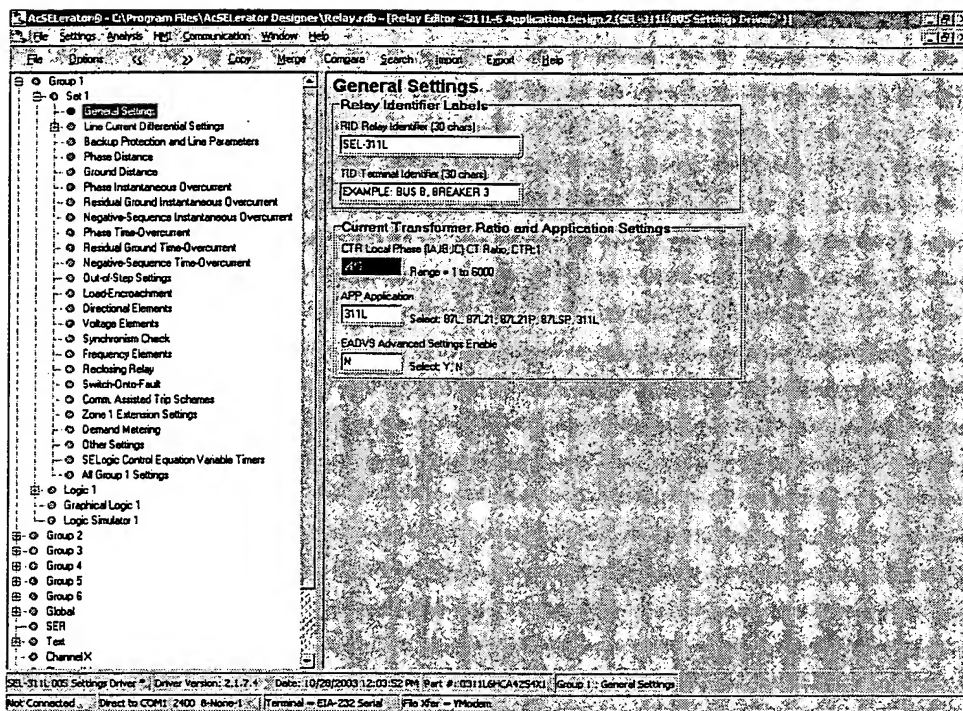


FIG. 6G

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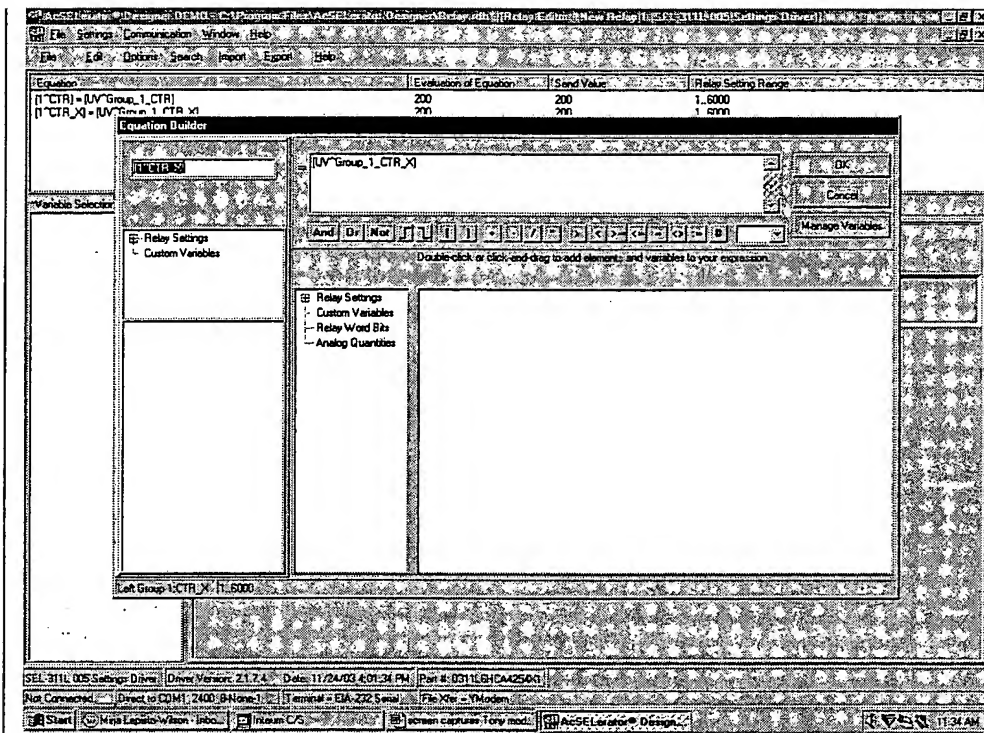


FIG. 7A

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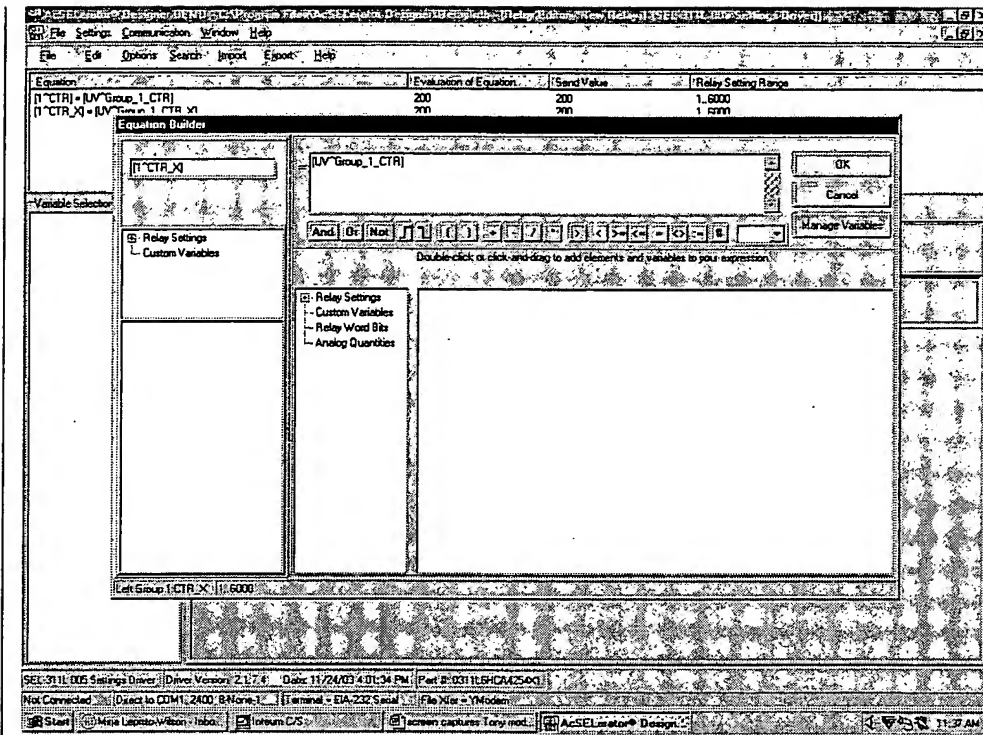


FIG. 7B

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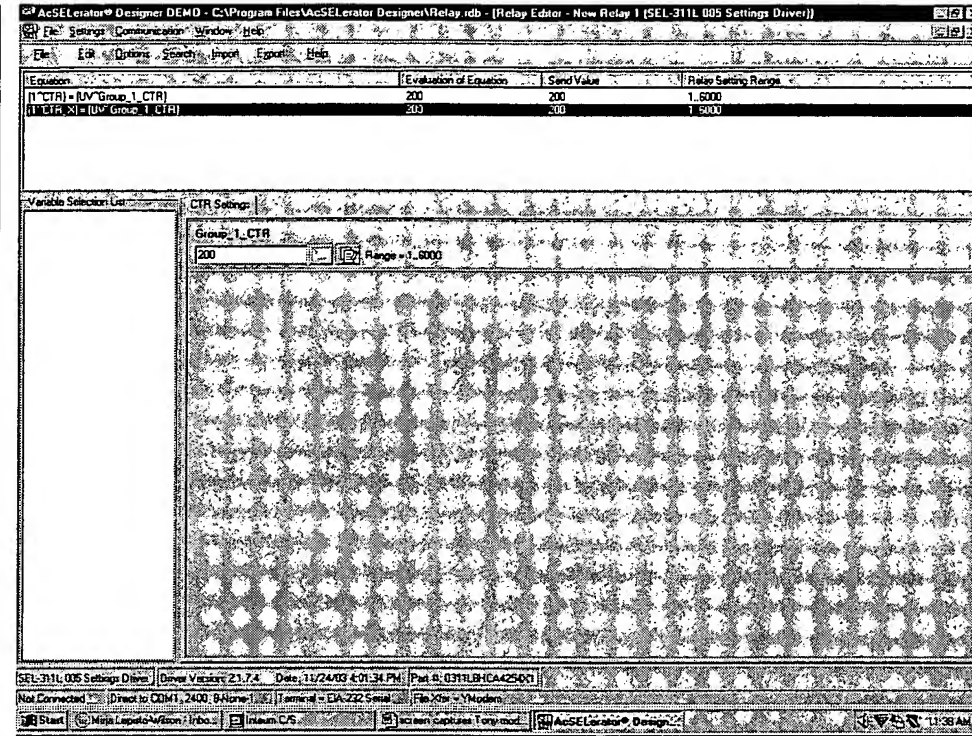


FIG. 7C

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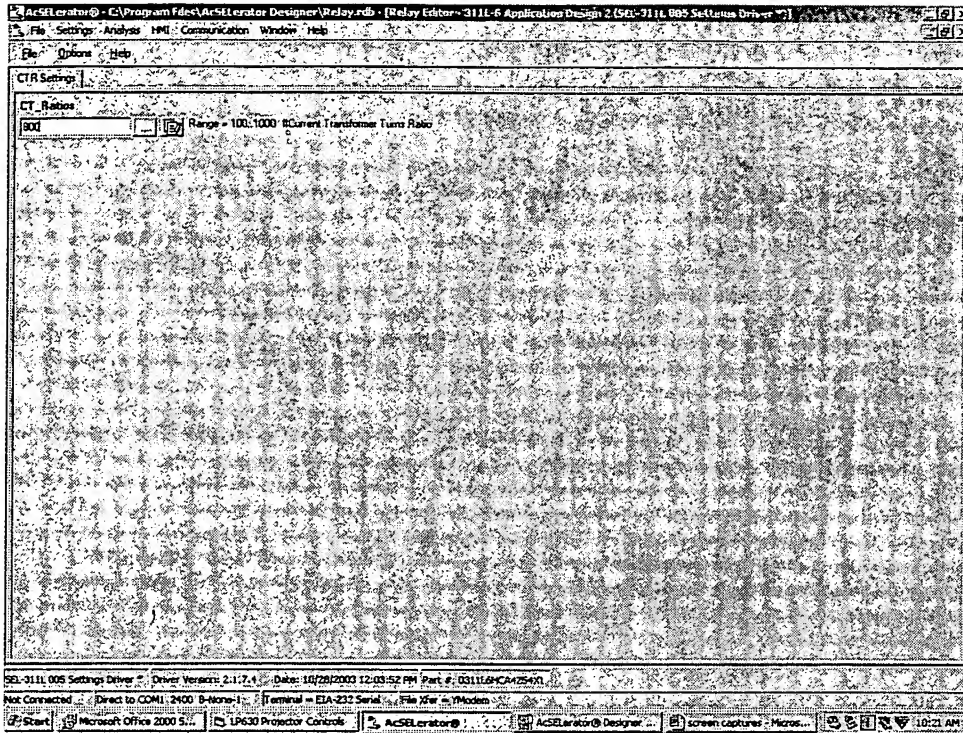


FIG. 7D

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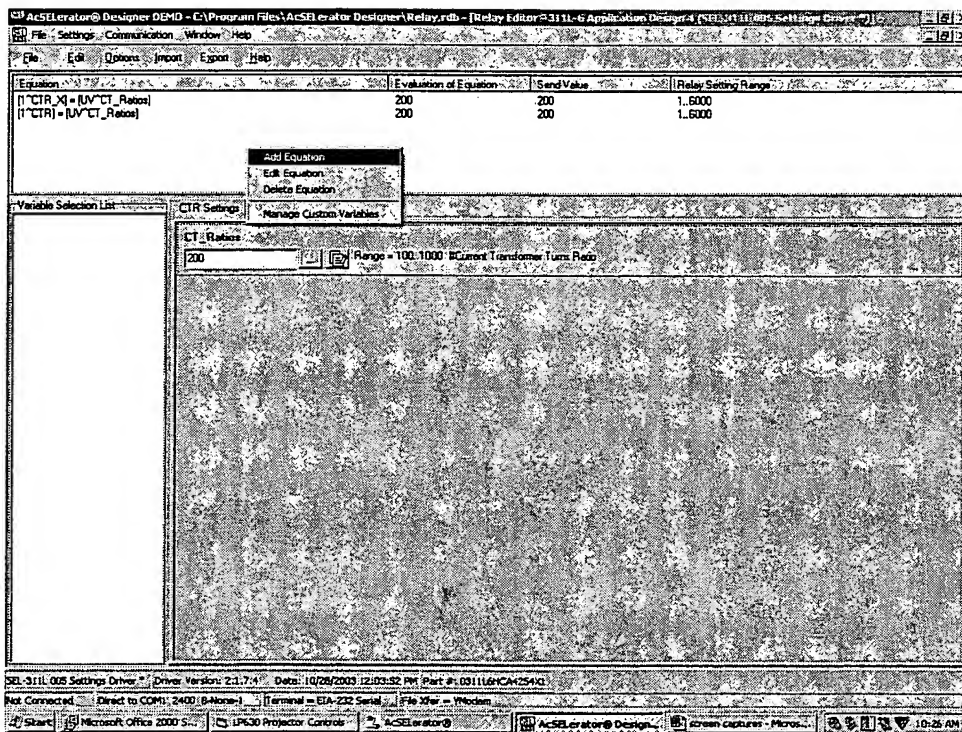


FIG. 8A

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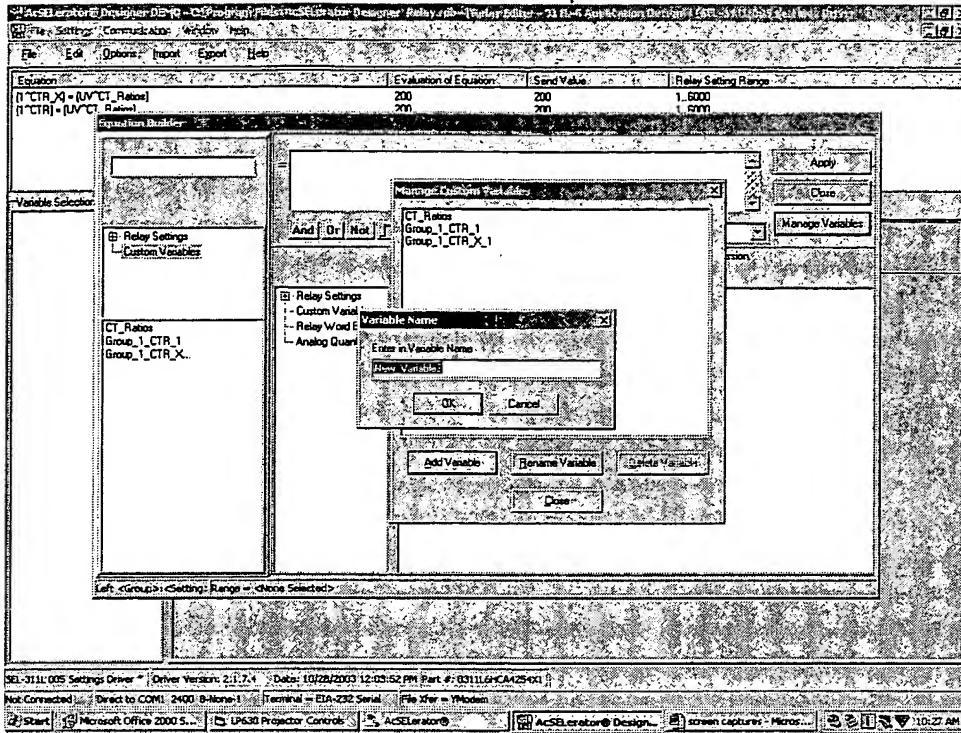


FIG. 8B

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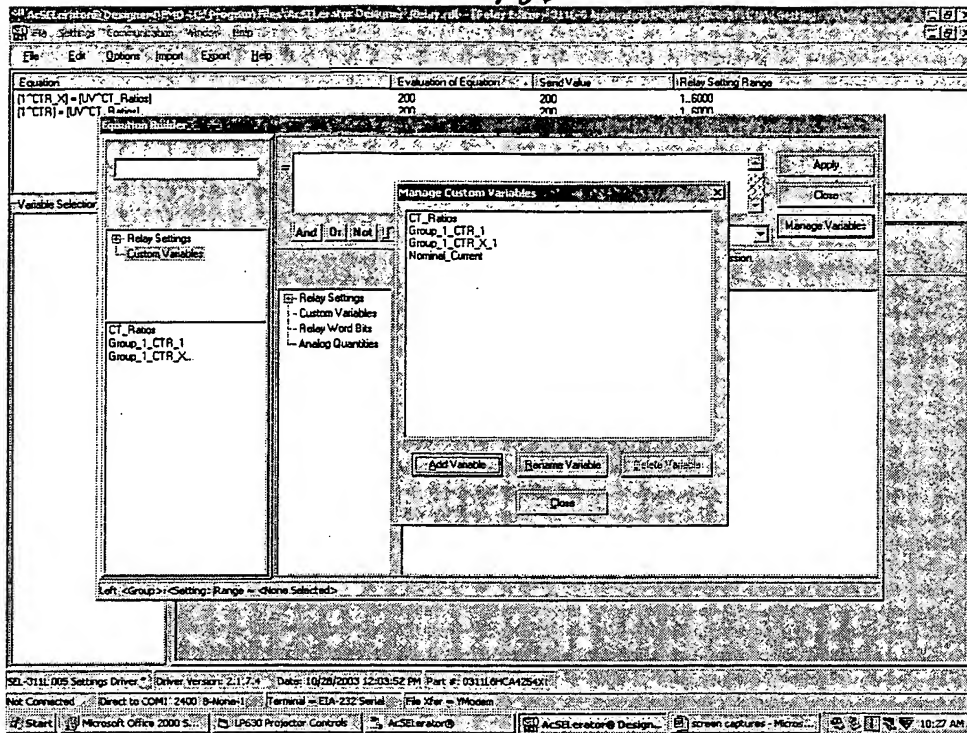


FIG. 8C

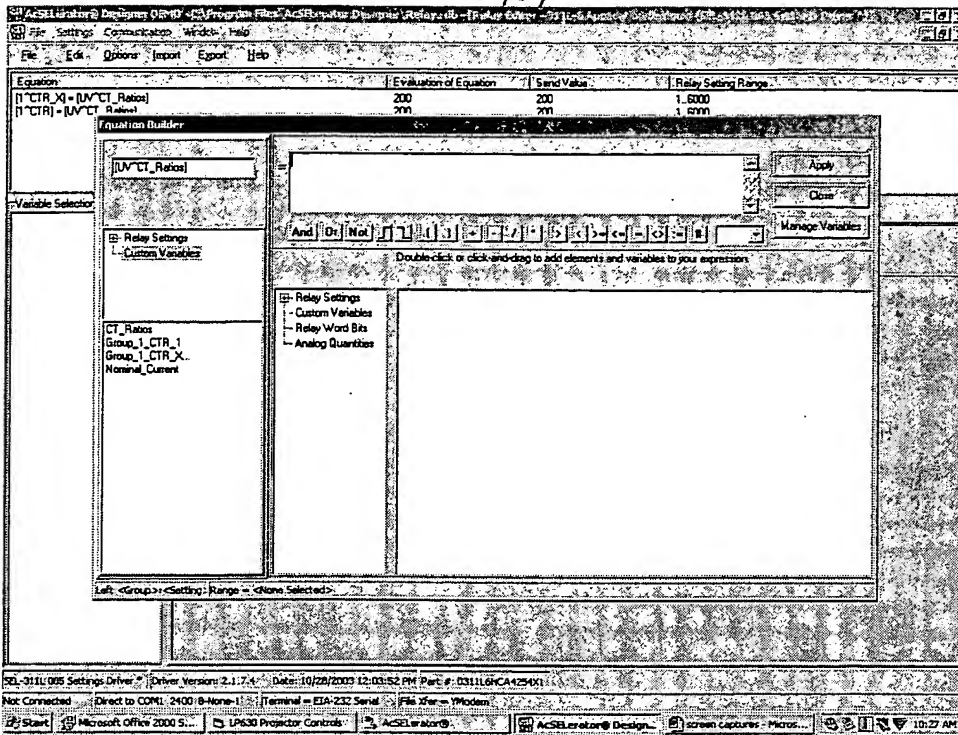


FIG. 8D

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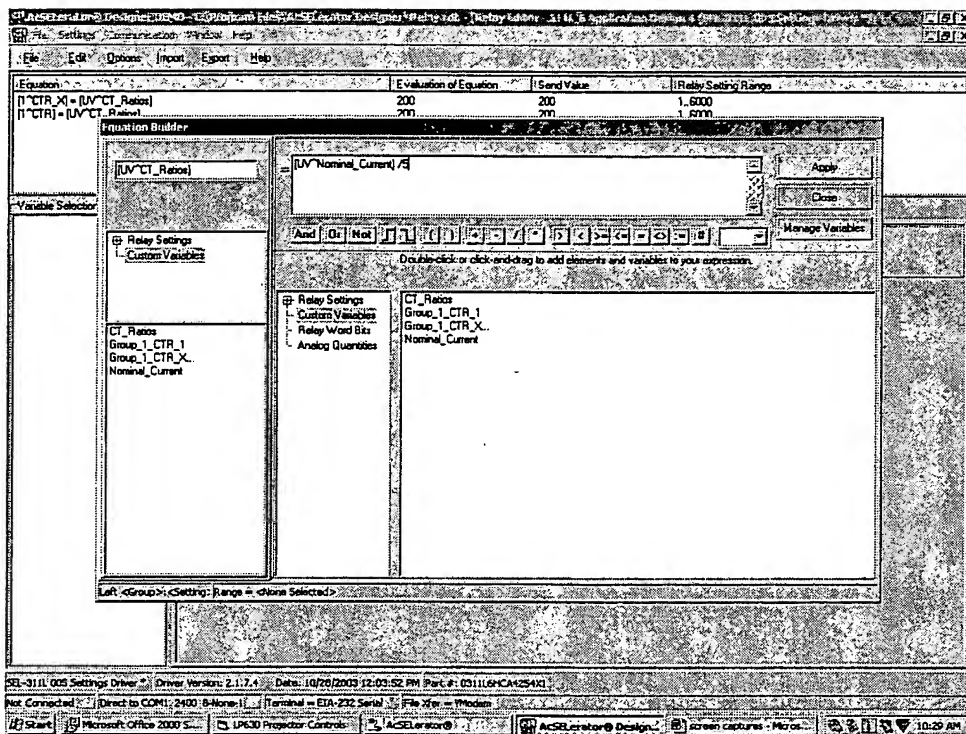


FIG. 8E

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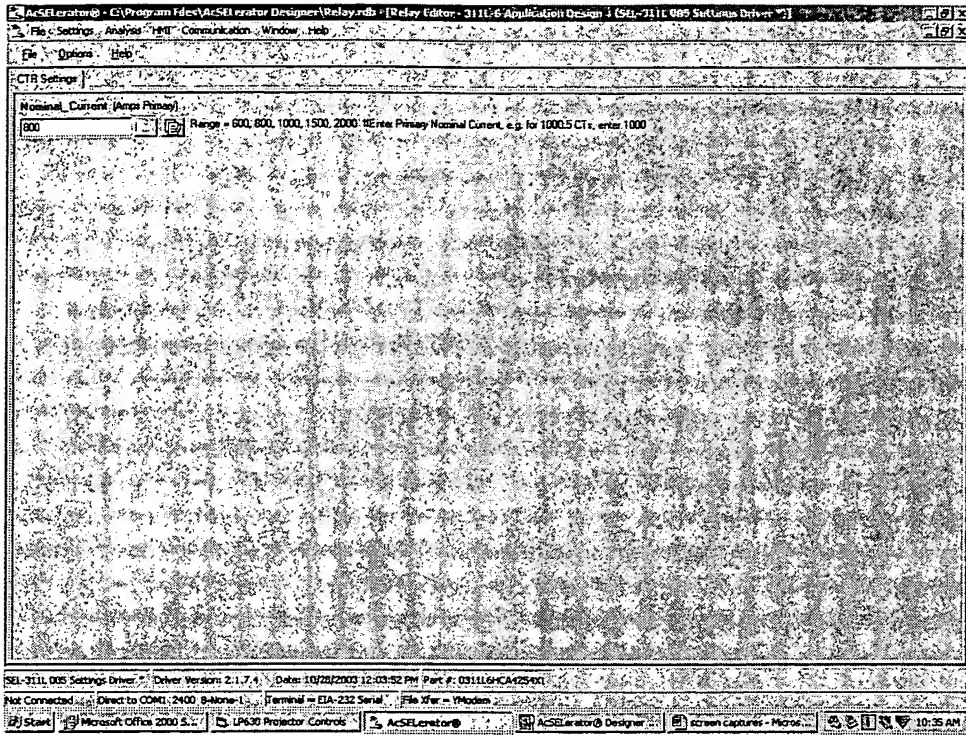


FIG. 8F

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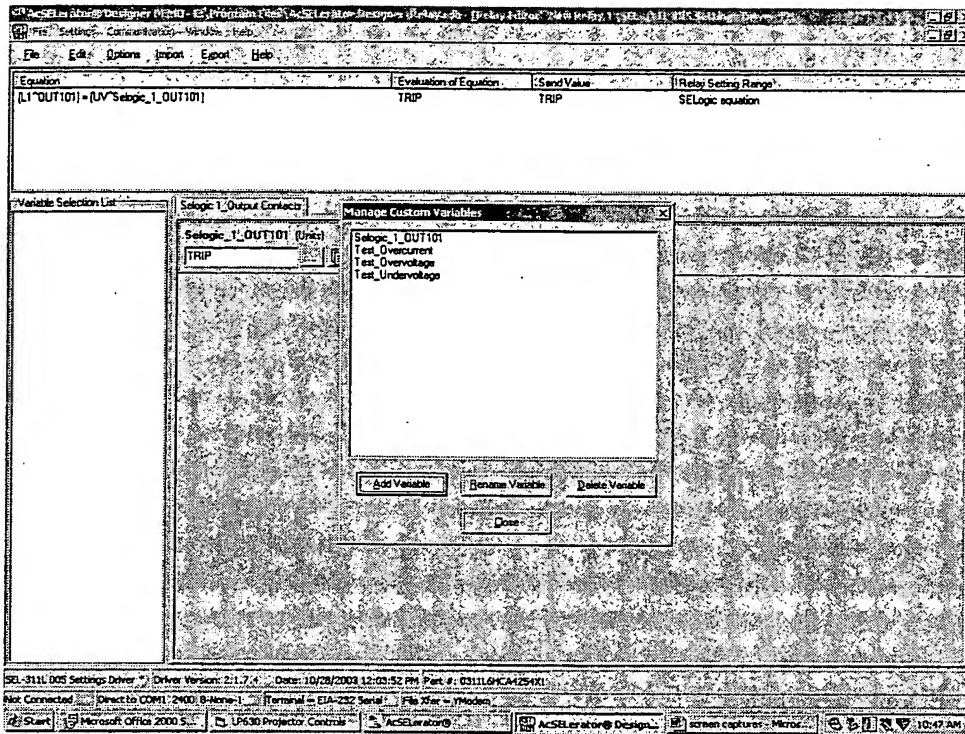


FIG. 9A

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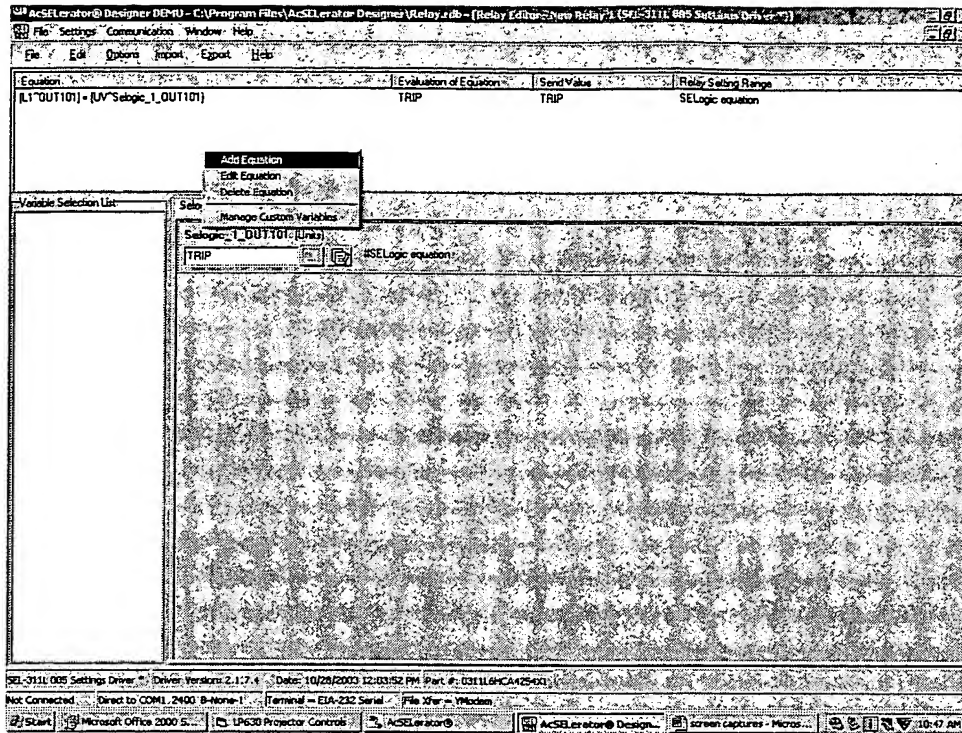


FIG. 9B

AcSELerator® Design - SEL-311L.005 Settings.DWG - [16]
 File Settings Simulation Window Help
 File Edit Options Input Export Help
 Equation Evaluation of Equation Send Value Relay Setting Range
 (L1*OUT101) • (UV*SElogic_1_OUT101) TRIP TRIP SELogic equation
 Equation Builder
 (UV*Test_Overcurrent)
 Variable Selector
 Relay Settings
 Custom Variables
 Sellogic_1_OUT1...
 Test_Overcurrent
 Test_Overvoltage
 Test_Undervoltage
 (R8*SIG) * (R8*50P1) * (R8*SIG)
 Apply
 Close
 And Or Not
 Double-click or click-and-drag to add elements and variables to your expression.
 Relay Settings
 Custom Variables
 Relay Word Bar
 Analog Quantities
 201I.LOG 320F 50LB 51GTC 59N2 67P
 202I.LOG 320GE 50LC 51P 590 67P
 203I.LOG 320R 50LG 51PR 595 67P
 204I.LOG 32VE 50P1 51PT 59M1 67P
 205I.LOG 32V7 50P2 51PTC 59M4 67P
 206I.LOG 32F9 50P3 51D 59VP 67P
 25A1 3P0 50O1 51OR 59VS 67P
 25A2 3P0X 50Q2 51OT 67G1 67P
 27A 3P0Y 50Q3 51OTC 67G1T 67Q
 27AB 50_S1 50Q4 52A 67G11TC 67Q
 27B 50AB 50QF 52AA 67G2 67Q
 27B1 50G1 50OR 52AB 67G2T 67Q
 27B2 50G2 50R2 52AC 67G2TC 67Q
 27C 50G3 50RA 59A 67G3 67Q
 27CA 50G4 50RB 59AB 67G3T 67Q
 27S 50GF 50RC 59B 67G3TC 67Q
 320F 50GR 50RG 59BC 67G4 67Q
 32GR 51G 59C 67G4T 67Q
 32IE 50L2 51GR 59CA 67G4TC 67Q
 32OE 50LA 51GT 59N1 67P1 67Q
 Left: <Group> <Setting> Range = <None Selected>

FIG. 9C

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ACSELEATOR® Designer DEMO - C:\Program Files\ACSELEATOR\Designer\Relay.edb - [Relay Editor - Selw Relay 1 (541-9111-605 Settings Drive...)]

File Settings Communication Window Help

File Edit Options Import Export Help

Equation	Evaluation of Equation	Send Value	Relay Setting Range
[LT*OUT101] = [LV*Selwge_1_OUT101]	TRIP	TRIP	SELwge equation
[LV*Test_Overcurrent] = [RB*51G] + [RB*50P1] + [RB*51Q]	51G + 50P1 + 51Q		N/A
[LV*Test_Overvoltage] = [RB*53A] + [RB*53B] + [RB*53C]	53A + 53B + 53C		N/A
[LV*Test_Undervoltage] = [RB*27A] + [RB*27B] + [RB*27C]	27A + 27B + 27C		N/A

Variable Selection List

Selwge_1_Output Contacts

Selwge_1_OUT101 (Unit)

TRIP

SELwge equation

SEL-3111-005 Settings Driver - [Driver Version: 2.1.1.7.4] [Date: 10/28/2003 12:03:52 PM] [Part #: 0311105HCA425-01]

Not Connected | Direct to COM1:2400,8-None-1 | Terminal = EIA-232 Serial | File 2fer = VModem

Start | Microsoft Office 2000 S... | UPS30 Protector Control | ACSELEATOR® | ACSELEATOR® Designer | screen captures - Micro... | 10:55 AM

FIG. 9D

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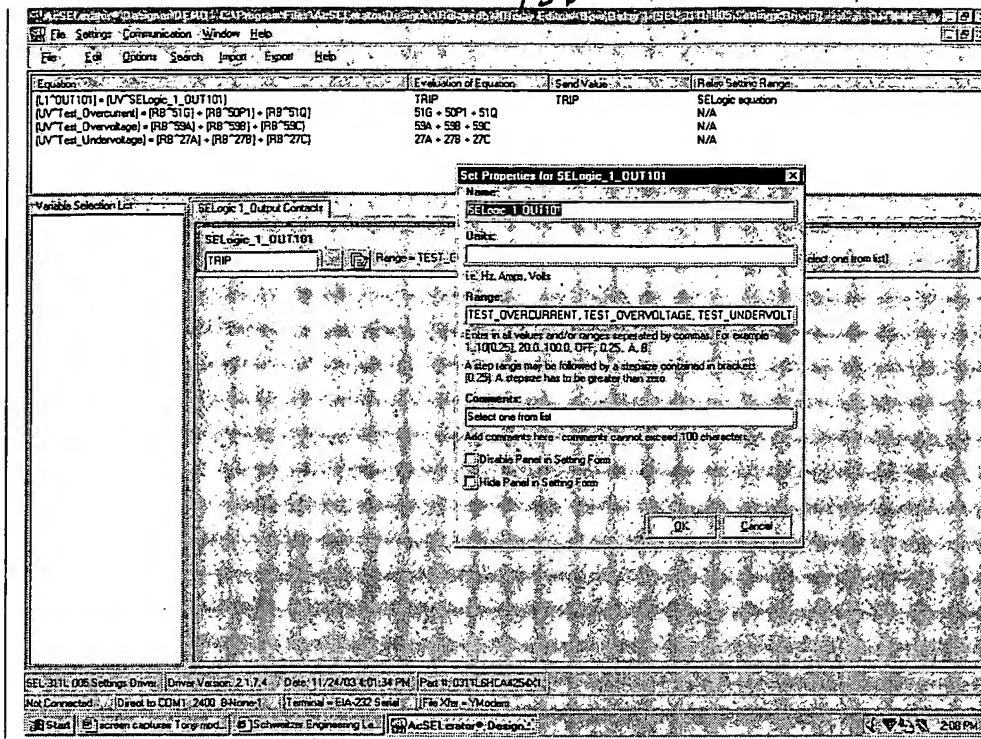


FIG. 9E

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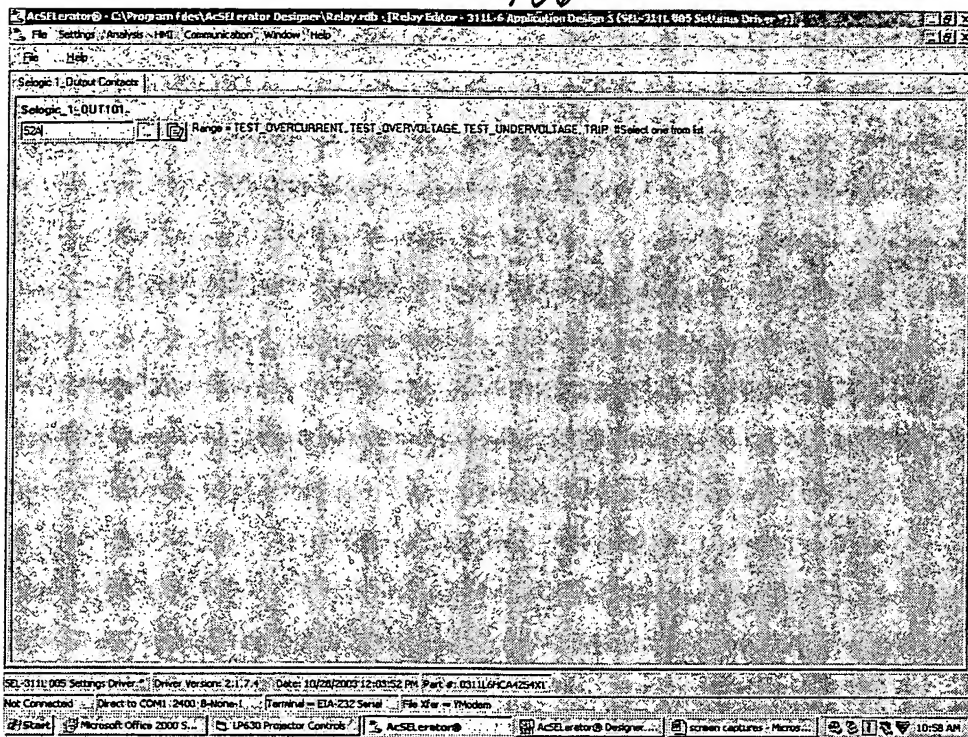


FIG. 9F

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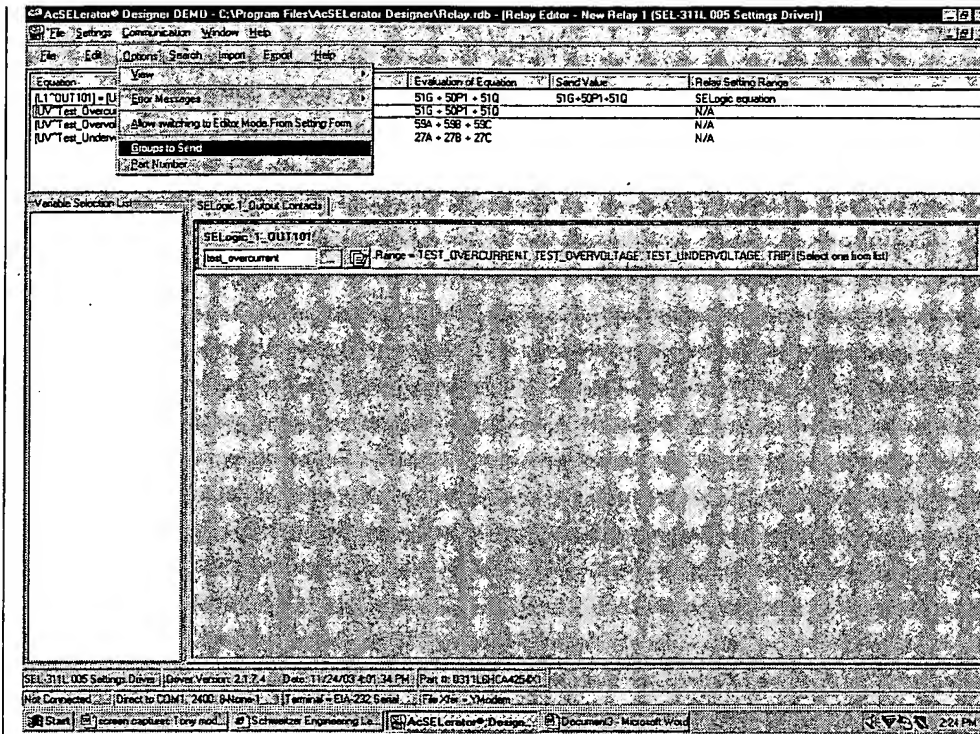


FIG. 10A

ACSElator 2.005 Settings GUI

Equation	Evaluation of Equation	Send Value	Relay Setting Range
[L1^OUT101] = [UV^SeLogic_1_OUT101]	51G * 50P1 * 51Q	51G*50P1*51Q	SELogic equation
[UV^Test_Overcurrent] = [RB^51G] * [RB^50P1] * [RB^51Q]	51G * 50P1 * 51Q		N/A
[UV^Test_Overvoltage] = [RB^53A] * [RB^53B] * [RB^53C]	53A * 53B * 53C		N/A
[UV^Test_Undervoltage] = [RB^27A] * [RB^27B] * [RB^27C]	27A * 27B * 27C		N/A

Variable Selection List

SeLogic_1_Output Contacts

SeLogic_1_OUT101

TEST_OVERCURRENT Range = TEST_OVERCURRENT,TEST_OVERVOLTAGE,TEST_UNDervOLTAGE,TRIP #Select one from list

Settings Group/Class Select

Send Groups

- ☒ Test
- ☒ SeLogic 1
- ☐ SeLogic 2
- ☐ SeLogic 3
- ☐ SeLogic 4
- ☐ SeLogic 5
- ☐ SeLogic 6
- ☐ SER
- ☐ Channel X
- ☐ Channel Y

OK Cancel

SR-311L 005 Settings Driver * | Driver Version: 2.1.7.1 | Date: 10/22/2003 12:03:52 PM Part #: 0311L9-CA125-001

Not Connected | Direct to COM1 2400 8-NONE-1 | Terminal = EIA-232 Serial | File Xfer = YModem

Start | Microsoft Office 2000 S... | UPS30 Proprietary Controls | ACSelator@ | ACSelator@ Desktop | screen captures - Micro...

11:07 AM

FIG. 10B

FIG. 11A 35/36

AcSBrator Designer C:\Documents and Settings\Jeffrey\Desktop\APC 651R 2.03.04\rel\ [Relay Editor - New Relay 2 SEL-651R 003]

File Settings Configuration Window Help

File Edit Options Search Import Export Help

Equation	Evaluation of Equation	Send Value	Relay Setting Range
(I~CTA) = (UV~CT_Ratio)	1.0	1.0	1.0..6000.0
(I~50P1P) = (UV~Group_1_50P1P)	OFF	OFF	0.05..20.00, OFF

Variable Selection List

Configuration Setting in Range

CT_Ratio
1.0 Range = 1.0..6000.0

Group_1_50P1P
OFF Range = 50.00..20000.00, OFF

Set Properties for Group_1_50P1P

Name: GROUP 1 50P1P

Units:

i.e. Hz, Amps, Volts

Range:
50.00/CT_Ratio..20000.00/CT_Ratio, OFF

Enter in all values and/or ranges separated by commas. For example:
1..10(0.25), 20.0..100.0, OFF, 0.25

A step range may be followed by a stepsize contained in brackets [0.25].
A stepsize has to be greater than zero.

Comments:

Add comments here - comments cannot exceed 100 characters.

☐ Disable Panel in Setting Form

☐ Hide Panel in Setting Form

OK Cancel

SEL-651R 003 Settings Driver Driver Version: 2.1.10.24 Date: 2/16/2004 12:15:56 PM Part #: 0651R011AAX211130X

Not Connected Direct to COM0 2400 8-None-1 Terminal = EIA-232 Serial File Xfer = YModem Debug

FIG. 11B

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AcSEerator® Designer - C:\Documents and Settings\jeffmc\Desktop\APC 651R 2_03_04.rdb - [Relay Editor - New Relay 2 (SEL-651R.003...]

File Settings Communication Window Help

File Edit Options Search Import Export Help

Equation	Evaluation of Equation	Send Value	Relay Setting Range
[I]^CTR) = [UV]^CT_Ratio	1000.0	1000.0	1.0..6000.0
[I]^SOP1P) = [UV]^Group_1_50P1P	OFF	OFF	0.05..20.00, OFF

Variable Selection List

Configuration Setting in Range

CT_Ratio
1000.0 Range = 1.0..6000.0

Group_1_50P1P
OFF Range = 0.05..20.00, OFF

SEL-651R 003 Settings Driver Driver Version: 2.1.10.24 Date: 2/16/2004 12:15:56 PM Part #: 0651R011AAX211130X

Not Connected Direct to COM0 2400 8-None-1 Terminal = EIA-232 Serial File Xfer = Ymodem Debug